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IN THE CLAIMS

Please amend the claims as follows. This listing replaces all prior versions.

1. (Currently amended) An isolated polynucleotide encoding a full length ducreyi serum resistance A (DsrA) protein, the polynucleotide selected from the group consisting of:
 - (a) DNA having the nucleotide sequence of SEQ ID NO:1;
 - ~~(b) DNA having the nucleotide sequence selected from the group consisting of SEQ ID NO:3, SEQ ID NO:5, SEQ ID NO:7, SEQ ID NO:9, SEQ ID NO:11, SEQ ID NO:13, SEQ ID NO:15, and SEQ ID NO:17;~~
 - (e)(b) a polynucleotide that hybridizes polynucleotides that hybridize to DNA of (a) or (b) above under stringent conditions as exemplified represented by a wash stringency of 50% Formamide with 5x Denhardt's solution, 0.5% SDS and 1x SSPE at 42°C and which encodes encode a full length DsrA; and
 - (d)(c) a polynucleotide that differs polynucleotides that differ from the DNA of (a) or (b) or (e) above due to the degeneracy of the genetic code and that encodes encode a full length DsrA.
2. (Canceled).
3. (Previously presented) An isolated polynucleotide that encodes DsrA, wherein the DsrA has the amino acid sequence of SEQ ID NO:2.
4. (Canceled).
5. (Currently amended) The isolated polynucleotide according to ~~Claim 1~~ Claim 1 which is ~~the~~ the DNA having the nucleotide sequence of SEQ ID NO:1.
- 6-7. (Canceled).

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8. (Previously presented) An expression vector comprising the polynucleotide according to Claim 1.
9. (Currently amended) ~~A~~An isolated cell containing the expression vector of Claim 8.
- 10-17. (Canceled).
18. (Currently amended) A method for detecting a polynucleotide which encodes DsrA in a biological sample, comprising:
- (a) contacting the complete complement of the polynucleotide sequence ~~selected from the group consisting of SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:5, SEQ ID NO:7, SEQ ID NO:9, SEQ ID NO:11, SEQ ID NO:13, SEQ ID NO:15, and SEQ ID NO:17 of claim 1~~ with the biological sample, ~~thereby forming a hybridization complex under conditions whereby a nucleic acid hybridization complex can form if a polynucleotide which encodes DsrA is present in the biological sample; and~~
- (b) detecting the hybridization complex, whereby the presence of the hybridization complex detects the presence of the polynucleotide which encodes the DsrA in the biological sample.
- 19-22. (Canceled).
23. (Previously presented) A composition comprising the polynucleotide of Claim 1 in a pharmaceutically acceptable carrier.
24. (Previously presented) The composition according to Claim 23 wherein the polynucleotide has the nucleotide sequence of SEQ ID NO:1.

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25. (Previously presented) A composition comprising the expression vector of Claim 8 in a pharmaceutically acceptable carrier.

26-28. (Canceled).